

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P1499476

Luminaire Tested: MAE-G-4-120-3HI-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3HI-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

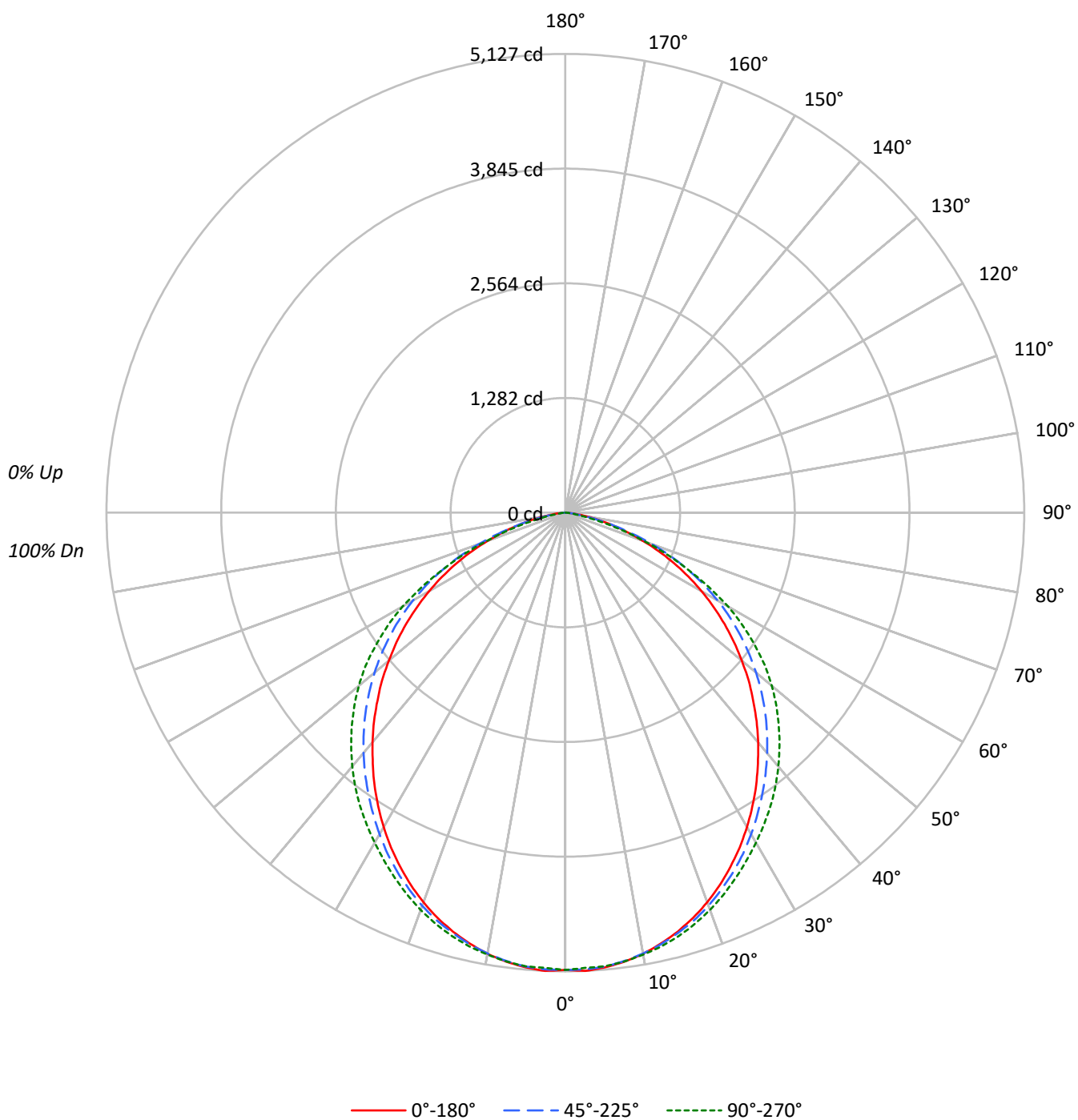
Lumens per Lamp: N/A
Luminaire Lumens: 12953.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	55	55	53
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6876	6876	6876
5°	6891	6877	6874
10°	6840	6837	6853
15°	6753	6775	6824
20°	6636	6696	6766
25°	6482	6585	6689
30°	6306	6449	6618
35°	6108	6302	6568
40°	5886	6160	6502
45°	5646	6008	6419
50°	5384	5822	6305
55°	5095	5597	6062
60°	4729	5288	5657
65°	4270	4823	4845
70°	3644	4049	3766
75°	2862	2954	2316
80°	1868	1519	896
85°	895	601	475

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6419 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.8	3.7
10°-20°	1370.5	10.6
20°-30°	2038.4	15.7
30°-40°	2402.0	18.5
40°-50°	2435.3	18.8
50°-60°	2122.1	16.4
60°-70°	1451.3	11.2
70°-80°	583.0	4.5
80°-90°	67.6	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3891.7	30.0
0°-40°	6293.6	48.6
0°-60°	10851.1	83.8
0°-90°	12953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5111	5111	5111	5111	5111	
5°	5102	5072	5092	5086	5089	484
15°	4848	4827	4864	4884	4899	1366
25°	4366	4367	4436	4468	4506	2010
35°	3719	3735	3837	3931	3999	2323
45°	2967	3007	3157	3299	3374	2290
55°	2172	2218	2386	2536	2584	1939
65°	1341	1402	1515	1527	1522	1326
75°	551	587	568	488	446	591
85°	58	52	39	34	31	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5110.6	5110.6	5110.6	5110.6	5110.6
2.5°	5127.1	5092.9	5110.6	5107.0	5093.9
5°	5102.3	5071.5	5091.6	5085.8	5089.2
7.5°	5062.1	5033.9	5055.0	5054.0	5059.7
10°	5006.7	4978.2	5004.3	5009.1	5016.1
12.5°	4933.3	4909.8	4941.7	4951.1	4965.2
15°	4848.2	4827.0	4863.6	4883.7	4899.1
17.5°	4748.9	4731.2	4778.4	4797.5	4818.7
20°	4634.3	4621.5	4676.8	4694.6	4725.4
22.5°	4506.8	4499.8	4557.5	4584.6	4620.2
25°	4366.0	4367.3	4435.8	4467.9	4505.5
27.5°	4218.5	4220.8	4298.9	4343.6	4383.8
30°	4058.9	4066.0	4151.1	4206.7	4259.7
32.5°	3889.9	3904.0	3996.2	4072.0	4131.0
35°	3718.6	3735.0	3836.9	3931.2	3998.6
37.5°	3533.2	3560.3	3675.0	3787.3	3856.8
40°	3351.1	3378.3	3507.0	3631.1	3702.1
42.5°	3163.3	3197.5	3334.7	3472.8	3541.3
45°	2967.2	3007.2	3157.3	3299.1	3373.6
47.5°	2779.1	2814.7	2972.9	3120.8	3197.5
50°	2572.3	2617.2	2781.5	2936.4	3012.1
52.5°	2375.1	2416.4	2585.4	2743.9	2812.3
55°	2171.9	2217.9	2385.8	2535.7	2584.3
57.5°	1963.8	2019.4	2181.3	2306.7	2352.7
60°	1757.2	1812.5	1965.1	2068.0	2102.2
62.5°	1551.4	1610.7	1744.1	1812.5	1812.5
65°	1341.1	1401.5	1514.8	1526.6	1521.9
67.5°	1130.9	1191.2	1277.4	1256.0	1241.9
70°	926.4	978.4	1029.3	990.1	957.2
72.5°	727.9	777.5	785.9	729.2	687.7
75°	550.6	587.4	568.3	488.1	445.6
77.5°	383.9	405.3	365.1	283.6	249.4
80°	241.1	250.5	196.1	138.2	115.7
82.5°	130.1	131.1	85.1	69.7	65.0
85°	58.0	52.0	38.9	34.2	30.8
87.5°	20.1	17.8	14.1	13.1	10.7
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.63	19.21	17.99	19.52	19.84	18.61	20.19	18.97	20.51	20.82
	3H	19.04	20.46	19.41	20.78	21.14	19.81	21.23	20.19	21.56	21.92
	4H	19.43	20.76	19.83	21.11	21.49	20.03	21.36	20.43	21.71	22.09
	6H	19.60	20.84	20.02	21.20	21.59	20.05	21.28	20.46	21.64	22.04
	8H	19.62	20.79	20.04	21.18	21.58	20.02	21.20	20.45	21.59	21.99
	12H	19.61	20.73	20.04	21.11	21.54	20.00	21.12	20.43	21.50	21.93
4H	2H	18.30	19.63	18.69	19.98	20.35	19.09	20.42	19.49	20.77	21.15
	3H	19.86	20.97	20.27	21.37	21.77	20.46	21.56	20.87	21.96	22.36
	4H	20.34	21.33	20.77	21.75	22.19	20.73	21.72	21.16	22.14	22.57
	6H	20.58	21.44	21.04	21.88	22.34	20.78	21.64	21.24	22.08	22.54
	8H	20.60	21.41	21.07	21.85	22.32	20.76	21.56	21.22	22.00	22.47
	12H	20.60	21.32	21.09	21.80	22.27	20.74	21.45	21.22	21.93	22.40
8H	4H	20.49	21.29	20.95	21.73	22.20	20.85	21.65	21.31	22.09	22.56
	6H	20.76	21.42	21.26	21.91	22.39	20.91	21.57	21.40	22.06	22.54
	8H	20.80	21.39	21.31	21.90	22.39	20.88	21.48	21.40	21.98	22.47
	12H	20.82	21.34	21.33	21.83	22.39	20.87	21.39	21.38	21.88	22.45
12H	4H	20.47	21.19	20.95	21.66	22.13	20.84	21.55	21.32	22.03	22.50
	6H	20.73	21.32	21.24	21.83	22.32	20.88	21.48	21.40	21.99	22.47
	8H	20.80	21.32	21.31	21.81	22.37	20.88	21.41	21.39	21.90	22.46